
Meridian 1

Meridian Companion

Portable Telephone Registration Instructions

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C3020 Registration instructions



These instructions are for registering portables using the Administration Terminal.

To operate the Companion C3020 portable, refer to *Companion C3020 Portable Telephone User Guide*.

Registration of C3020 portables on a Meridian Companion system involves using either the Administration Terminal or Companion Manager along with the portable. For more information about the Administration Terminal, refer to *Meridian Companion Administration Terminal Operations Guide*. For more information about Companion Manager, refer to *Companion Manager Installation and Operations Guide*.

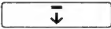
Registering the C3020 portable

Registering C3020 portable to a wireless telephone system involves using both the Administration Terminal and the C3020 portable. To register portables, you must first turn on registration for the entire system using either the Administration Terminal or Companion Manager. Each C3020 portable telephone can be registered on up to eight different systems.

Note: Portables cannot be registered when out of radio range of the system.

Starting Administration programming

1. On the Administration Terminal, press Feature * * 9 . The terminal displays **Password:** .
2. Enter the Administration password (default password is 9 9 9 9). The terminal displays **1. Registration** .

3. Press  until the display shows **Mstr Reg Enbl:** .
4. Press **CHANGE** until the display shows **Mstr Reg Enbl: Y** .

Registering the C3020

1. Open the portable flap.
2. Press and release  , then press  . The display shows **Select feature>** .
3. Press  .

If the display shows **Office n: Free** , a system number is available for registration. Proceed to step 4.

If the display does not show **Office n: Free** , a system number is not available for registration. See “Deregistering the C3020” on page 4 to overwrite a system number.

4. Press and release  , then  . The display shows **Registering...** .

If a radio link is established, the Radio Link icon highlights.

5. Enter the Registration password. The default is      (RADIO).

If the password is incorrect the display shows the incorrect password and then **Reg'n failed** . Close the portable flap and repeat the procedure from step 1.

Refer to the *Meridian Companion Programming and Provisioning Record* for the password.

6. After the display clears, enter the four-digit wireless terminal number (WTN) you want to assign to the portable. The display shows **Reg'n complete** .

If the WTN is incorrect, the display shows **Reg'n failed** . To clear the display, press  and go to Step 2.

Ending Administration programming

After registering all the portables, turn off Administration programming on the Administration terminal:

1. Press **CHANGE** until the display shows **Mstr Reg Enbl: N**.
2. Press **[Rls]** to end the programming session.

Confirming that the C3020 is registered

1. Close, then open the portable flap.

If the display shows the system name that you just registered, proceed to step 5.

If the display shows a different system name or **No system selected**, proceed to step 2.

2. Press and release **[Shift]**, then press **[Memory]**. The display shows **Select feature>**.
3. Press **[Office]**. The display shows the current selected system number.
4. Press and release **[Shift]**, then press **[#]**, or press and release **[Shift]**, then press **[*]** to search for the system number you just registered.
5. Press **[Line]**. You hear dial tone.

If you do not hear dial tone, check that you have selected the correct system and try to register the portable again.

6. Close the portable flap and set the ringer switch to .

If the portable is twinned with a desk telephone, make sure the desk telephone is idle.

7. On another working telephone, dial the telephone number of the registered portable. If the portable rings, it is functioning properly.

Note: If you do not hear dial tone, or if the portable does not ring, refer to “Troubleshooting” in *Meridian Companion Installation and Maintenance Guide*. If you continue to experience difficulty registering the portable, contact your distributor.

Deregistering the C3020

You can deregister the C3020 in several ways:

- from the portable
- from the Administration Terminal (refer to *Meridian Companion Administration Terminal Operations Guide*)
- from Companion Manager (refer to *Companion Manager Installation and Operations Guide*)

Deregistering the C3020 from the portable clears registration information stored in the portable and the system. For example, you may want to deregister the portable before you assign it to another WTN on the same system.

Deregistering the C3020 from the Administration Terminal or from Companion Manager does not clear registration data from the portable. You could use this method if the portable were lost or stolen or if you wanted to assign it to another system.

If a portable is registered on other systems, it will still be available on those systems. You deregister one system at a time.

Note: If you are out of range of the system, this procedure clears registration data only from the portable.

1. Open the portable flap.
2. Press and release **Shift**, then **Memory**.
3. Press **Office**. The display shows **Office n:**.
4. To display the system you want to deregister, search through the names:
 - a. To search up, press and release **Shift**, then **#**.
 - b. To search down, press and release **Shift**, then *****.
5. Press and release **Shift**, then **0**. The display shows **Deregister?**.
6. Press and release **Shift**, then **0**. The display shows **Deregistering...** and then **Deregistered**.
7. To continue using the portable, press **Release**.

Identifying a portable's wireless terminal number

When you register a portable, you assign it a WTN. If you have registered several portables and have forgotten which portable has which WTN, you can identify the WTN.

1. Open the portable flap.
2. Press **Shift** three times, then press **Memory**. The display shows **A-**.
3. Press ***** **0**. The display shows the WTN for 3 seconds.

Measuring RSSI

The Receive Signal Strength Indicator (RSSI) is a measurement of the signal strength the Base Station receives from the portable. The strongest RSSI value the display shows is **-44** dBm. The weakest RSSI value the display shows is approximately **-85** to **-95** dBm.

Measuring undirected RSSI

You can measure the signal strength between a portable and a system-selected Base Station using undirected RSSI.

1. Open the portable flap.
2. Press **Shift** three times, then press **Memory**. When you establish a radio link, the display shows **A-**.
3. Press ***** **8TUV** **9WXY** **8TUV**. The display shows the radio ID of the Base Station to which the portable is linked, followed by the signal strength, for example, **03121-67**.

Hand-off occurs normally between the cells.

In this example, the card is **03**, the port is **12**, the radio is **1**. The signal strength measured by the Base Station is **-67** dBm.

4. To end the connection, press **Release** or close the flap.

Measuring directed RSSI

You may want to measure the RSSI between a portable and a specific Base Station radio. For example, you may suspect that a radio in a Base Station is not working properly. You can also use directed RSSI to prevent hand-off while you find a cell edge. To measure the RSSI of a specific radio, you must be in range of two Base Stations—the one you want to measure and another Base Station.

Note 1: You cannot measure the directed RSSI of both radios in the Base Station at the same time.

Note 2: RSSI overrides the normal portable display. You cannot make or receive calls while measuring RSSI.

Before you begin to measure directed RSSI, use the *Meridian Companion Programming and Provisioning Record* to find and note the following:

- The five-digit ID of the Base Station radio you want to measure, by mapping the Base Station location to the TCM port. The first four digits indicate the TCM port to which the Base Station is connected. The last digit indicates the number of the radio on the Base Station. For example, the number 03122 on the Base Station is connected to TCM port 0312, and 2 is the radio number. The five-digit number might be printed on a label affixed to the Base Station mounting bracket.
- The radio IDs of all other Base Stations in the same location.

1. Follow steps 1 to 3 under “Measuring undirected RSSI” on page 5.

If the display shows the ID of a neighboring Base Station of the one you want to measure, proceed to step 2.

If the display shows the ID of the Base Station you want to measure, move out of the cell boundary range so that hand-off occurs and then continue with step 2.

2. Press **Shift** three times, then press **Memory**. When you establish a radio link, the display shows **RT**.
3. Press ***** **8^{TUV}** **9^{WXY}** **9^{WXY}**.
4. Enter the five-digit ID code for the Base Station radio you want to measure. The display shows this ID followed by the signal strength, for example, **03121-67**.

Hand-off does not occur as you move between the cell boundaries. The link drops when you move out of range.

In this example, the card is **03**, the port is **12**, the radio is **1**. The signal strength measured by the Base Station is **-67** dBm.

5. To end the connection, press  or close the flap.

C3050 Registration instructions



These instructions are for registering portables using the Administration Terminal.

To operate the Companion C3050 portable, refer to *Companion C3050 Portable Telephone User Guide*.

Registration of C3050 portables on a Meridian Companion system involves using either the Administration Terminal or Companion Manager along with the portable. For more information about the Administration Terminal, refer to *Meridian Companion Administration Terminal Operations Guide*. For more information about registering portables and performing related tasks using Companion Manager, refer to *Companion Manager Installation and Operations Guide*.

Setting the C3050 default values

This procedure ensures that all the portables in your coverage area have the same initial setting before you register them. To customize the features in your portables after registration, refer to *Companion C3050 Portable Telephone User Guide*.

ATTENTION!

This procedure erases all registration information and the custom features from the portable memory.

1. Open the portable flap.
2. Press **Menu** . The display shows **FEATURE LIST** .
3. Press  or  until the display shows **Security Off** .
4. Press **ON** .

If the display shows **Enter PIN** , go to Step 5.

If the display shows **Define PIN first** , the previous owner of the portable did not define a PIN for the security lock feature.

- a. Press **PIN** . The display shows **Enter new PIN** .
 - b. Enter any six-digit number. The display shows * for each number entered.
 - c. Press **Done** . The display shows **Enter it again** .
 - d. Enter the same six-digit number from step b. The display shows * for each number entered.
 - e. Press **Done** . The display shows **Saved** .
 - f. Close the portable flap and repeat the procedure from Step 1.
5. Enter the eight-digit master Personal Identifier Number (PIN).

Note: The master PIN may be on a sticker located on the back of the portable.

6. Press **DONE** . The display shows **Clear everything** .
7. Press **YES** . The display shows **No system selected** .

Registering the C3050 portable

Registering C3050 portables to a wireless telephone system involves using both the Administration Terminal and the C3050 portable. To register portable telephones, you must first turn on administration programming for the entire system using either the Administration Terminal or Companion Manager. Each C3050 portable telephone can be registered on up to nine different systems.

Note: Portables cannot be registered when out of radio range of the system.

Starting Administration programming

1. On the Administration Terminal, press . The display shows **Password:** .
2. Enter the Administration password (default password is). The display shows **1. Registration** .
3. Press until the display shows **Mstr Reg Enbl:** .
4. Press **CHANGE** until the display shows **Mstr Reg Enbl: Y** .

Registering the C3050

1. Open the portable flap. The display shows the current system name or **No system selected** for two seconds.
2. Press . The display shows **WIRELESS SYSTEMS** .

Note: Your portable can be registered to nine different systems. If all nine system name locations are used, you must deregister a system name. See “Deregistering the C3050” on page 13.

3. Press the **ADD** key to establish a radio link. The display briefly shows **Adding SYSTEM** and the next system number.

If a radio link is established, the display shows **Pswd:** .

If a radio link is not established, the display shows **No connection** . Close the portable flap and repeat the procedure from step 1.

4. Enter the registration password. The default is (RADIO). The display shows **WTN:** .

If the registration password is not correct, the display shows **Invld Pswd** . Close the portable flap and repeat the procedure from step 1.

5. Enter the four-digit wireless terminal number (WTN). The display shows **Enter name** .

If the WTN is incorrect, the display shows **Invld WTN** . If the registration fails, the display shows **Reg failed** .

If you attempt to register the C3050 to the same system twice, the display shows the registered name, for example
Registered as NORTEL 1 .

6. Enter the system name (up to 16 characters), for example **NORTEL 1 .**
 - a. Keep pressing the button that has the letter you want *until* the letter appears on the display. For example, press  three times to display the letter L.
 - b. Press SPACE to add a blank space to the name.
 - c. Press BACKSP to delete the previous character.
Press  or  if the next letter is on the same button.
7. Press SAVE . The display shows the registered name, for example
NORTEL 1 registered .

Ending Administration programming

After registering all the portables, turn off Administration programming on the Administration Terminal:

1. Press CHANGE until the terminal display shows **Mstr Reg Enbl: N .**
2. Press  . The terminal display shows **End of session .**

Confirming that the C3050 is registered

1. Close, then open the portable flap.
If the display shows the system name that you just registered, proceed to step 5.
If the display shows a different system name or **No system selected ,** proceed to step 2.
2. Press  . The display shows **WIRELESS SYSTEM6 .**
3. Press  or  until the display shows the system name you registered.
4. Press SELECT .
5. Press  . You hear dial tone, and the display shows  .

If you do not hear dial tone, check that you have selected the correct system and try to register the portable again.

6. Close the portable flap and set the ringer control switch to .

If the portable is twinned with a desk telephone, make sure the desk telephone is idle and Call Forward is not active.

7. On another working telephone, dial the telephone number of the registered portable. If the portable rings, it is functioning properly.

Note: If you do not hear dial tone, or if the portable does not ring, refer to “Troubleshooting” in *Meridian Companion Installation and Maintenance Guide*. If you continue to experience difficulty registering the portable, contact your distributor.

Deregistering the C3050

You can deregister the C3050 in several ways:

- from the portable
- from the Administration Terminal (refer to *Meridian Companion Administration Terminal Operations Guide*)
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Deregistering the C3050 from the Administration Terminal or from Companion Manager does not clear registration data from the portable. You could use this method if the portable were lost or stolen or if you wanted to assign it to another system.

If a portable is registered on other systems, it will still be available on those systems. You deregister one system at a time.

Note: If you are out of range of the system, this procedure clears registration data only from the portable.

1. Open the portable flap.
2. Press **[System]** . The display shows **WIRELESS SYSTEMS** .
3. Press **▽** or **△** to display the system name that you want to deregister.
4. Press **ERASE** . The display shows **Erase item?** .
5. Press **OK** . The display shows **Deregistering...** and then **Item erased** .

Displaying the C3050's wireless terminal number

When you register a portable, you assign it a WTN. If you register several portables and forget which portable has which WTN, this procedure displays the WTN.

1. Open the portable flap.
2. Press **[Menu]** . The display shows **FEATURE LIST** .
3. Press **▽** or **△** until the display shows **Feature request** .
4. Press **SELECT** . The display shows **A-** .
5. Press **[*]** **[0]** . The display shows the WTN for three seconds.

Measuring RSSI

The Receive Signal Strength Indicator (RSSI) is a measurement of the signal strength the Base Station receives from the portable. The Base Station controls the power transmitting mode of the portable. When the Base Station receives a weak signal, it instructs the portable to transmit in high-power. When the Base Station receives a strong signal, it instructs the portable to transmit in low-power. The strongest RSSI value the display shows is **-35 dBm**. The weakest RSSI value the display shows is approximately **-94** to **-100 dBm**.

Measuring undirected RSSI

You can measure the signal strength between a portable and a system-selected Base Station using undirected RSSI.

1. Open the portable flap.
2. Press **[Menu]** . The display shows **FEATURE LIST**.

3. Press  or  until the display shows **Feature request** .
4. Press **SELECT** . The display shows **A-** .
5. Press     . The display shows the radio ID of the Base Station to which the portable is linked, followed by the signal strength and the power mode, for example, **03142 - 54 H** .

Hand-off occurs normally between the cells.

Note: In this example, the card is **03** , the port is **14** , and the radio is **2** . The signal strength measured by the Base Station is **-54** dBm, and the **H** indicates the portable is transmitting in high-power mode (an **L** indicates low-power mode).

6. To end the connection, press  or close the flap.

Measuring directed RSSI

You may want to measure the RSSI between a portable and a specific Base Station radio. For example, you may suspect that one of the two radios in a Base Station is not working properly. You can also use directed RSSI to prevent hand-off while you find a cell edge. To measure the RSSI of a specific radio, you must be in range of two Base Stations—the one you want to measure and another Base Station.

Note: You cannot measure the directed RSSI of both radios in the Base Station at the same time.

Before you begin to measure directed RSSI, use *Meridian Companion Programming and Provisioning Record* to find and note the following:

- The five-digit ID of the Base Station radio you want to measure, by mapping the Base Station location to the TCM port. The first four digits indicate the TCM port to which the Base Station is connected. The last digit indicates the number of the radio on the Base Station. For example, the number 03142 on the Base Station is connected to TCM port 0314, and 2 is the radio number. The five-digit number might be printed on a label attached to the Base Station mounting bracket.
- The radio IDs of all other Base Stations in the same location.

1. Follow steps 1 to 5 under “Measuring undirected RSSI” on page 14.

If the display shows the ID of a neighboring Base Station of the one you want to measure, proceed to step 2.

If the display shows the ID of the Base Station you want to measure, move out of the cell boundary range so that hand-off occurs and then continue with step 2.

2. Press  . The display shows **FEATURE LIST** .
3. Press  or  until the display shows **Feature request** .
4. Press **SELECT** .
5. Press     . The display shows **A-** .

6. Enter the five-digit ID code for the Base Station radio you want to measure. The display shows this ID followed by the signal strength and the power mode, for example, **03142 - 54 H** .

Hand-off does not occur as you move between the cell boundaries. The link drops when you move out of range.

Note: In this example, the card is **03** , the port is **14** , and the radio is **2** . The signal strength measured by the Base Station is **-54** dBm, and the **H** indicates the portable is transmitting in high-power mode (an **L** indicates low-power mode).

7. To end the connection, press  or close the flap.



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